

Owner's Information Manual

Central Air Conditioning System & Gas Furnace



Turn to the Experts.®



Chas Roberts

AIR CONDITIONING & HEATING

(602) 943-3426

(520) 292-6858

9828 North 19th Avenue
Phoenix, AZ 85021-1992

4065 East Illinois Street
Tucson, AZ 85714-2106

www.ChasRoberts.com

Important Facts You Should Know About Your Gas Furnace and Air Conditioner

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Gas Furnace

- **If You Smell Gas** – Call your gas company, at once, from a neighbor's phone. DO NOT touch any electrical switches or light any flames.
- **If Smoke Appears – Don't be alarmed, THIS IS NORMAL**, the first time the furnace is started. Your smoke alarms may sound, but they will reset when the smoke clears. The reason this happens is because the factory applies a layer of oil inside the furnace to protect it during shipment. The burners will burn away this oil the first time the furnace is started. The furnace will smoke this one time only.
- **Before you call for service, check these simple items first:**
 - ☐ Is the furnace plugged in and are the breakers and disconnects turned on?
 - ☐ Is the thermostat set above the room temperature?
 - ☐ Is the thermostat switch set in the heat position:
 - ☐ Is the gas line connected to the furnace? If not, call you builder or plumbing contractor.
 - ☐ Is the gas manual shut off valve open? The gas valve handle is located just outside the furnace and the handle should be turned parallel with the gas pipe to be on. If it is turned at a right angle, it is off.
 - ☐ Is the air filter dirty or full of lint? A dirty filter will block needed air flow to the furnace and shut it down prematurely.
- If you have checked all these things, and the furnace still does not operate, CALL your builder or Chas Roberts Air Conditioning.
- Important, more detailed information on your furnace should be reviewed in your homeowner's operation and maintenance manual.

Air Conditioner

- During the cooling season, your gas furnace provides air flow for your air conditioning.
- **Do Not** turn the air conditioning system off. Part-time cooling is poor economy. If the system is left off during the morning, the home will soak up heat and be more difficult to cool in the afternoon. You can actually save money by letting the thermostat determine when cooling is needed.
- During the hot, dry seasons, we recommend keeping the air conditioner blower on continuously. The air conditioning unit cools more evenly when the blower switch is in the ON position. The blower provides refreshing air movement and even temperatures throughout the home. The blower also circulates air through the filter, which helps remove dust, lint and other pollutants more efficiently.
- During the more humid monsoon season, we recommend switching the blower to the AUTO position to help dehumidify the air more efficiently. Check you condensate drain to make sure the moisture being removed from the house is draining properly. The bottom drain outside your house should be dripping and the emergency overflow drain above should be dry.
- Shades, drapes, shutters, or screens should be installed on windows that are exposed to direct sunlight. Also, plant a tress or put up a canopy to protect your windows from the direct sun.
- For cooling and heating . . . Leave your thermostat alone. When you have found a temperature that you prefer, it is best to leave the thermostat at that setting.
- Clean or replace the filters frequently. Dirty filters will lower performance and efficiency of your cooling. The filters are usually located at the return grille or at the indoor section of your unit.

WELCOME TO EFFICIENT YEAR-ROUND COMFORT

CONGRATULATIONS! You have made an excellent choice and sound investment in home cooling comfort! Carrier offers more than one hundred years of creating customized home comfort systems with the broadest selection of residential heating and cooling products available.

Your new Carrier air conditioning system is a product of that experience, and will provide you and your family with years of dependable, energy efficient cooling comfort.

This booklet provides information on how your system works as well as helpful hints on operation and maintenance so you can enjoy peak performance for years to come. For even greater peace of mind, your expert Carrier dealer can provide professional maintenance and service on an annual or as-needed basis to ensure that your system receives the very best care from the industry experts. Ask your dealer about scheduling annual maintenance visits or about the benefits of a service contract. In addition, your installing Carrier dealer can offer expert recommendations on all of the Carrier products, accessories and services available to enhance your comfort through personalized control of your system and improved indoor air quality.

A NOTE ABOUT SAFETY

Any time you see this symbol  in manuals, instructions and on the unit, be aware of the potential for personal injury. There are three levels of precaution:

DANGER identifies the most serious hazards which will result in severe personal injury or death.

WARNING signifies hazards that could result in personal injury or death.

CAUTION is used to identify unsafe practices which would result in minor personal injury or product and property damage.

WARNING

PERSONAL INJURY, DEATH AND / OR PROPERTY DAMAGE HAZARD

Failure to follow this warning could result in personal injury, death or property damage.

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause personal injury or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or service agency must use factory-authorized kits or accessories when modifying this product.

WARNING

PERSONAL INJURY, DEATH, OR PROPERTY DAMAGE HAZARD

Failure to follow this warning could result in personal injury, death, or property damage.

Read and follow all instructions and warnings, including labels shipped with or attached to unit before operating your new air conditioner.

ABOUT YOUR AIR CONDITIONING SYSTEM

Identifying Your System

Your new Carrier air conditioning system is what we call a "split system." It has an outdoor unit and an indoor unit connected to each other with copper tubing called refrigerant lines. Each of these units has a rating plate with the model and serial numbers you will need to reference when calling an authorized Carrier dealer about your system.

Take a few moments now to locate those numbers and record them in the spaces provide on the cover of this booklet.

USING YOUR NEW CARRIER SYSTEM

Your Carrier air conditioning system is controlled by a wall-mounted thermostat installed inside your home. Because there are so many thermostats available, please refer to the owner's manual supplied with your thermostat for complete details on system operation. Or, read the next section for basic operating instructions.

SYSTEM OPERATION WITH BASIC THERMOSTAT

Most basic thermostats have three main controls:

- S System or Mode Control: Typically offers the following selections: Cool, Off, and Heat. Some thermostats also have Auto, which lets the system switch between heating and cooling as needed.
- S Temperature Control: A button, lever, or set of buttons that allows you to select the temperature inside your home.
- S Fan Control: Typically offers two options: Auto and On. "Auto" provides slightly higher energy efficiency by circulating air only during cooling (or heating) operation. "On" provides better air circulation, better dehumidification and better air cleaning by running the system's blower continuously.

COOLING YOUR HOME

For cooling operation, make sure the System or Mode control is set for Cooling. Then, adjust the Temperature control to your desired setting. Finally, use the Fan control to select Automatic (turns on and off as cooling is needed) or On (runs continuously).

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DELUXE THERMOSTATS

Carrier offers a number of deluxe thermostats, including programmable models, which can provide a number of benefits depending on the model:

- S Customized daily and/or weekly comfort schedules that you create to match your lifestyle
- S Enhanced energy efficiency and comfort
- S Enhanced comfort through humidity control
- S Enhanced maintenance reminders
- S Remote system operation

Ask your Carrier dealer for information on a deluxe thermostat option that matches your air conditioning system.

OPERATION UNDER EXTREME CONDITIONS

Your air conditioner will run as long as necessary to maintain the indoor temperature selected on your thermostat. On extremely hot days, your air conditioner will run for longer periods at a time than on moderate days. Your system will also run for longer periods of time under the following conditions:

- S Frequent opening of exterior doors
- S Operating laundry appliances
- S Taking hot showers
- S More than the usual number of people present in the home
- S More than the normal number of electric lights in use
- S Drapes or blinds are open on the sunny side of the home

INFINITY OPERATION

If you own an Infinity two-stage air conditioning system, you may notice your system runs for longer periods of time. Nearly 80% of the time it's running, it is operating in low-stage, and your indoor temperature will remain more consistent with fewer drafts, better humidity control, enhanced comfort and enhanced energy efficiency.

GET THE MOST FROM YOUR COOLING SYSTEM

These simple suggestions can help you enjoy years of maximum cooling comfort:

S Listen To Your System

Get to know the start-up and operational sounds your indoor and outdoor units make. Learn to recognize and identify unusual sounds that may signal the need for service.

S Keep Filter Clean

A clogged or improperly installed air filter on your indoor unit will increase operating costs and shorten the life of the unit. Plan to inspect the filter monthly and clean or replace it as needed.

S Do Not Block Floor, Wall or Ceiling Vents

When drapes, furniture, toys or other common household items block vents, the restricted airflow lessens the system's efficiency and life span.

S Do Not Cover or Block Outdoor Unit

The outdoor unit needs unrestricted airflow. Do not cover it or place items on or next to it. Do not allow grass clippings, leaves, or other debris to accumulate on the sides or top of the unit. And, maintain a 12" minimum clearance between the outdoor unit and tall grass, vines, shrubs, etc.

S Check Condensate Drain

Your air conditioner removes humidity from your home during the cooling season. After a few minutes of operation, water should trickle from the condensate drain of the indoor coil. Check this occasionally to be sure the drain system is not clogged. Drainage will be limited if you live in a very dry environment.

S Do Not Operate Below 55°F

Your outdoor unit is not designed to operate when outdoor temperatures are lower than 55°F without modification. If operation below this temperature is required, consult your Carrier dealer.

A complete Infinity System with low ambient temperature cooling capability can operate down to 0°F outside temperature when properly set up.

The logo for Chas Roberts features the name "Chas" in a red, cursive script and "Roberts" in a blue, cursive script.

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ROUTINE MAINTENANCE

Simple, routine maintenance as described below will enhance your air conditioning system's ability to operate economically and dependably. Always remember the following safety precautions:



WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Disconnect all electrical power to the indoor air handler or furnace before removing access panels to perform any maintenance. Disconnect power to both the indoor and outdoor units (see Fig. 1.)

NOTE: There may be more than one electrical disconnect switch.



CAUTION

PERSONAL INJURY AND/OR PRODUCT AND PROPERTY DAMAGE HAZARD

Failure to follow this caution may result in personal injury or product and property damage.

Although special care has been taken to minimize sharp edges in the construction of your unit, be extremely careful when handling parts or reaching into the unit.

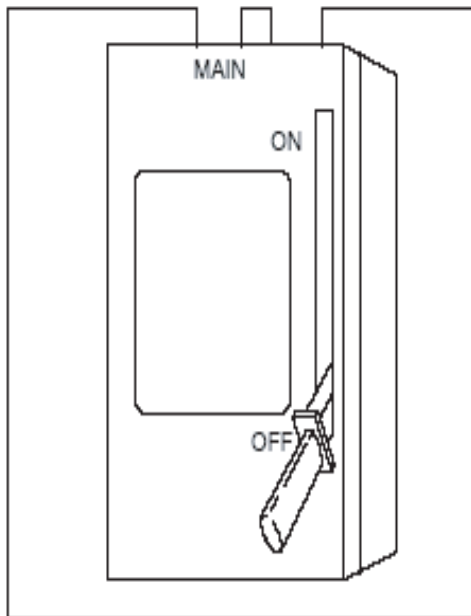


Fig. 2 - Main Electrical Disconnect

INDOOR UNIT (Furnace or Fan Coil)

S Check the Air Filter Monthly

There are no filters on your outdoor unit. However, a dirty air filter on the indoor unit can cause overheating, automatic system shutdown, and in extreme cases, component failure.

CHECK THE FILTER(S) MONTHLY AND CLEAN OR REPLACE AS NEEDED. For details on how to check, clean or replace your filter(s), refer to your furnace or fan coil owner's manual. OR, if you have an electronic air cleaner or a larger, "boxed" air filter, refer to the owner's manual supplied with those products.

S Coil Cleaning

Your indoor coil is located in a sealed cabinet on your indoor unit and will require minimal clearing with routine filter maintenance. Longer operating cycles and reduced energy efficiency may indicate the need for a coil cleaning by your Carrier dealer.

OUTDOOR UNIT

S Coil Cleaning

The most visible part of the outdoor unit is the large "coil" wrapped around the inner components of the air conditioner. If grass clippings, leaves, shrubbery, and debris are kept away from the coil, minimal care is needed. If the coil becomes dirty, clean the coil surface with a vacuum cleaner using a soft brush attachment. Use an up and down motion being careful not to bend or damage the delicate, aluminum coil fins. If dirt is deep in the coil, contact your dealer for service.

S Base Pan Drainage

Periodically check for and remove debris that has settled around the base of your outdoor unit. This will ensure proper drainage of the base pan and eliminate standing water inside the outdoor unit.

S Level Installation

Your Carrier dealer will install the outdoor unit in a level position. If the support base settles or shifts and the unit is no longer level, be sure to re-level it promptly to assure proper drainage. If you notice water or ice collecting beneath the unit, arrange for it to be drained away from the unit.

SEA COAST COIL MAINTENANCE

Coastal locations often require additional maintenance of the outdoor unit due to highly corrosive airborne ocean salt. Although your new Carrier system is made of galvanized metal and is protected by top-grade paint, take the additional precaution of periodically washing all exposed surfaces and the outdoor coil approximately every 3 months. Consult your installing Carrier dealer for proper clearing intervals and procedures for your geographic area or ask about a service contract for regularly scheduled professional cleaning and inspections.

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TROUBLESHOOTING

Before you request dealerservice, check for these easily solved problems:

- S Check the indoor and outdoor disconnect switches (see Fig. 1.) Also check your main electrical panel circuit breakers or fuses.
- S Check for sufficient airflow. Air filter(s) should be reasonably clean and interior vents should be open and unobstructed.
- S Check thermostat settings. For cooling, your desired temperature setting should be LOWER than the displayed room temperature, and the System/Mode control should be on Cool or Auto. For heating, your temperature setting should be HIGHER than the displayed room temperature, and the System/Mode control is set to Heat or Auto.
- S Time delays – depending on the Carrier air conditioner you have, there may be delays in unit operation that are built-in to protect the equipment and your comfort. Don't be alarmed if you notice a time delay in operation. It may be a standard protection feature of your equipment. Check with your Carrier Dealer for more information on time delays.

If you need to contact your Carrier dealer for troubleshooting and/or repairs, be sure to have the model and serial numbers of your equipment available (there are spaces on the cover for you to write this information). With this information, your dealer may be able to offer helpful suggestions over the phone or save valuable time through knowledgeable preparation for the service call.

REGULAR DEALER MAINTENANCE

In addition to the routine maintenance that you perform, your home comfort system should be inspected regularly by a properly trained service technician. Many dealers offer this service at a reduced rate with a service contract. Some service contracts offer additional benefits such as parts discounts and no additional charge for "after hours" or emergency service.

Your annual system inspection should include

- S Routine inspection of air filter(s) with replacement or cleaning as required
- S Inspection and cleaning of the blower wheel housing and motor
- S Inspection and, if required, cleaning of indoor and outdoor coils
- S Inspection of the indoor coil drain pan, as well as the primary and secondary drain lines. If the system has an auxiliary drain pan and line, they should be inspected at this time as well. Service should include cleaning if required.
- S Check all electrical wiring and connections
- S Check for secure physical connections of individual parts in each unit
- S Operational check of the air conditioning system to determine actual working condition. Necessary repair and, or adjustment should be performed at this time.

TURN TO THE EXPERTS

When you turn to Carrier for your indoor comfort needs, you are turning to the experts. With more than a century of experience, Carrier has seen it all. Whether we're delivering superior comfort for homeowners nationwide, or solving cooling or refrigeration challenges around the world, Carrier has been coming through since 1902.

Your Carrier air conditioning system, backed by the world's best name in comfort and supported with expert installation, maintenance and service by your local Carrier dealer should offer you and your family years of reliable, energy efficient cooling comfort.

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AIR CONDITIONING & HEATING

The Most Comfortable Call You Can Make!

Chas Roberts Air Conditioning is proud to be a family owned and operated business, serving Arizona since 1942.

As your HVAC system Installer, we can provide you with services to meet all of your Heating and Air Conditioning needs after you have taken possession of your new home:

- Sales
- Service & Repair
- Extended Warranties
- Preventative Maintenance

We are available to speak with you Monday-Friday 7am to 8pm, Saturday 7am to 5pm, and Sunday 9am to 4pm with extended hours during the summer.

Please call, or visit our website, with all of your HVAC questions or concerns.

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CARRIER CORPORATION

Limited Warranty for Single Phase Base Series, Outdoor Cooling or Heating-Cooling Product of 60,000 BTUH or less Cooling Capacity

FOR WARRANTY SERVICE OR REPAIR FOLLOW THESE STEPS IN ORDER:

FIRST: Contact the installer or a Carrier dealer. You may find the installer's name on the equipment or in your Owner's Packet. You can also find a Carrier dealer online at www.carrier.com.

SECOND: For help finding a servicing dealer, contact: Carrier Corporation, Consumer Relations, P.O. Box 4808, Syracuse, New York 13221
Phone: 1-800-227-7437

PRODUCT REGISTRATION: You can register your product online at www.carrier.com or call 1-800-227-7437.

Model No. _____ Unit Serial No. _____
Date of Installation _____ Installed by _____
Name of Owner _____ Address of Installation _____

Carrier Corporation (hereinafter "Company") warrants this product against failure due to defect in material or workmanship under normal use and maintenance as follows. Except as otherwise stated, the warranty period is five (5) years from the date of installation. If a part fails due to defect within the warranty period, Company will provide only a new or remanufactured part, at Company's sole option, to replace the failed defective part without charge for the part. This limited warranty is subject to the provisions, conditions, limitations and exclusions listed below and on the reverse (if any) of this document.

LEGAL REMEDIES - The owner must notify the Company in writing, by certified or registered letter to Carrier Corporation, Warranty Claims, P.O. Box 4808, Syracuse, New York 13221, of any defect or complaint with the product, stating the defect or complaint and a specific request for repair, replacement, or other correction of the product under warranty, mailed at least thirty (30) days before pursuing any legal rights or remedies.

WARRANTY CONDITIONS:

1. Product must be installed properly and by a licensed or otherwise qualified HVAC technician.
2. The warranty applies only to products remaining in their original installation location.
3. Installation, use, care, and maintenance must be normal and in accordance with instructions contained in the Installation Instructions, Owner's Manual and Company's service information.
4. Defective parts must be returned to the distributor through a registered servicing dealer for credit.
5. Where a product is installed in a newly constructed home, the date of installation is the date the homeowner purchased the home from the builder.
6. If the date of original installation cannot be verified, then the warranty period begins ninety (90) days from the date of product manufacture (as indicated by the model and serial number).

LIMITATIONS OF WARRANTIES: ALL IMPLIED WARRANTIES AND/OR CONDITIONS (INCLUDING IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE) ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. SOME STATES OR PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION LASTS. SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESS WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON, WHATSOEVER.

THIS WARRANTY DOES NOT COVER:

1. Labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts, or replacement parts, or new units.
2. Any product purchased over the Internet.
3. Normal maintenance as outlined in the installation and servicing instructions or Owner's Manual, including filter cleaning and/or replacement and lubrication.
4. Failure, damage or repairs due to faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
5. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or damages due to the inadequacy or interruption of electrical service.
6. Failure or damage due to floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of Company.
7. Parts not supplied or designated by Company, or damages resulting from their use.
8. Products installed outside the U.S.A. or its territories and Canada.
9. Electricity or fuel costs, or increases in electricity or fuel costs from any reason whatsoever, including additional or unusual use of supplemental electric heat.
10. Any cost to replace, refill or dispose of refrigerant, including the cost of refrigerant.
11. ANY SPECIAL, INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states or provinces do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

Induced Combustion Gas Furnace



Turn to the Experts.™

Owner's Manual

NOTE TO INSTALLER:
THIS MANUAL MUST BE LEFT WITH
THE EQUIPMENT USER.

USER: Please read all instructions in the manual and retain all manuals for future reference.



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⚠ WARNING

FIRE OR EXPLOSION HAZARD

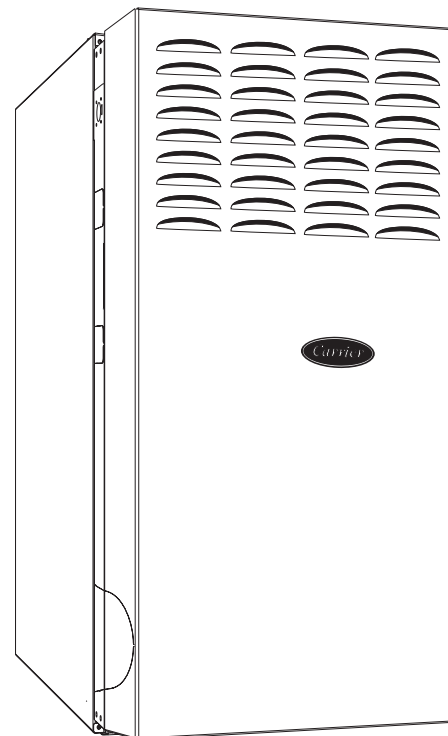
Failure to follow safety warnings could result in injury, death, or property damage.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Leave the building immediately.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.



⚠ WARNING

CARBON MONOXIDE POISONING HAZARD

Failure to follow this warning could result in personal injury and/or death.

Carbon Monoxide is invisible, odorless, and toxic! Carrier Heating and Cooling Systems recommends a carbon monoxide alarm in your home, even if you do not own a gas appliance. Locate the carbon monoxide alarm in the living area of your home and away from gas appliances and doorways to attached garages. Follow the alarm manufacturer's instruction included with the alarm.

⚠ WARNING

ELECTRICAL OPERATION HAZARD

Failure to follow this warning could result in personal injury, death, or property damage.

Do not use this furnace if any part has been under water. A flood-damaged furnace is extremely dangerous. Attempts to use the furnace can result in fire or explosion. A qualified service agency should be contacted to inspect the furnace and to replace all gas controls, control system parts, electrical parts that have been wet or the furnace if deemed necessary.

WELCOME TO TODAY'S GENERATION OF COMFORT

Congratulations! Your new, higher efficiency gas furnace is a sound investment which will reward you and your family with years of warm memories winter after winter.

Not only is your new furnace energy efficient, it is also extremely reliable. Spend just a few minutes with this booklet to learn about the operation of your new furnace—and the small amount of maintenance it takes to keep it operating at peak efficiency. Years went into the development of your new furnace. Take a little time now to assure its most efficient operation for years to come.

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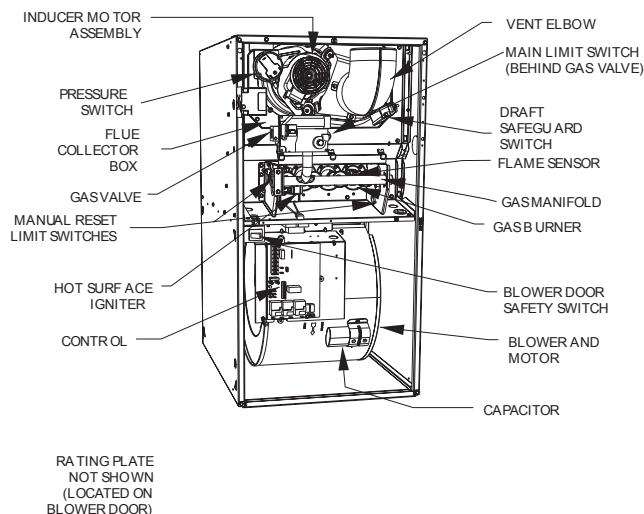
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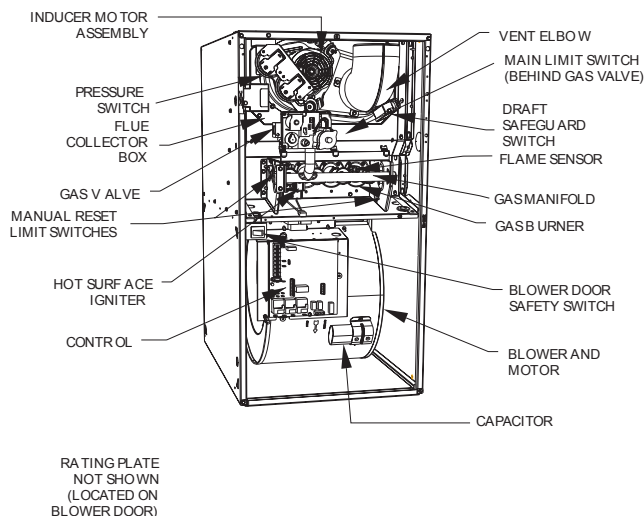
FURNACE COMPONENTS

(Furnace shown in upflow position; may be used in downflow or horizontal orientation or applications. Vent Elbow may be turned to a different position, depending on type of installation)



A02259

Fig. 1 - 80% AFUE Single Stage Furnace Components



A02260

Fig. 2 - 80% AFUE Two-Stage Furnace Components

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IMPORTANT FACTS (DO'S AND DON'TS)

SDO: READ AND UNDERSTAND THIS MANUAL.

SDO: Have your furnace and vent system inspected annually by a qualified service technician.

SDO: Inspect your filter monthly and clean or replace when needed.

SDO: Provide adequate airflow to the furnace for efficient combustion and safe ventilation.

SDO: Keep your furnace free and clear of insulating material.

Some materials may be combustible. Examine the furnace area when the furnace is installed or when insulation is added.

SDO NOT: Enclose your furnace in an airtight room or seal it behind solid doors.

SDO NOT: Keep combustible materials, gasoline, and other flammable liquids or vapors around your furnace.

SDO NOT: Cover your furnace in any manner.

SDO NOT: Store anything (including trash or debris) near your furnace.

SDO NOT: In any way block or restrict airflow around your furnace.

SDO NOT: In any way block or restrict airflow to your supply air and return air grills.

SDO NOT: Use your furnace room as a broom closet or a place to store any kind of chemical or cleaner.

SDO NOT: Contaminate the air used for combustion of your furnace with any kind of chemical or fumes. This could also cause heat exchangers, metal vent systems or components to deteriorate.

NOTE: These chemicals or fumes are present in many products around the home, such as: water softener salts, any type of household cleaning product, any type of laundry product, adhesives, paints, varnishes, paint strippers, waxes and plastics, etc.

During remodeling be sure the combustion air is fresh and uncontaminated. If these compounds are burned in your furnace, the heat exchangers and metal vent system may deteriorate.

NOTE: The qualified installer or agency must use only factory-authorized replacement parts, kits, and accessories when modifying this product.

This furnace contains safety devices which must be manually reset. If the furnace is left unattended for an extended period of time, have it checked periodically for proper operation. This precaution will prevent problems associated with no heat, such as frozen water pipes, etc. See "Before You Request a Service Call" section in this manual.

⚠ WARNING

ELECTRICAL OPERATION HAZARD

Failure to follow this safety warning could result in injury, death, or property damage.

Do not keep combustible materials, gasoline, and other flammable liquids or vapors around your furnace.

⚠ WARNING

FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings could result in personal injury, death, or property damage.

Keep insulation clear of furnace and maintain clearances shown on unit clearance label.

BEFORE STARTING YOUR FURNACE

Examine the furnace installation to determine that:

1. All flue gas carrying areas external to the furnace (i.e. chimney, vent connector) are clear and free of obstructions.
2. The vent connector is in place, slopes upward and is physically sound without holes or excessive corrosion.
3. The return-air duct connection(s) is physically sound, is sealed to the furnace casing, and terminates outside the space containing the furnace.
4. The physical support of the furnace is sound without sagging cracks, gaps, etc. around the base.
5. There are no obvious signs of deterioration of the furnace.
6. The pilot and burner flames are in good adjustment (by comparison with pictorial sketches or drawings of the main burner flame and, if applicable, the pilot burner flame).

SAFETY CONSIDERATIONS

Installing and servicing heating equipment can be hazardous due to gas and electrical components. Only trained and qualified personnel should install, repair, or service heating equipment.

Untrained personnel can perform basic maintenance functions such as cleaning or replacing air filters. All other operations must be performed by trained service personnel. Observe safety precautions in this manual, on tags, and on labels attached to the furnace, and other safety precautions that may apply.

Recognize safety information. This is the safety-alert symbol . When you see this symbol on the furnace and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which will result in severe personal injury or death. WARNING signifies hazards which could result in personal injury or death. CAUTION is used to identify unsafe practices which would result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which will result in enhanced installation, reliability or operation.

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STARTING YOUR FURNACE

Your furnace uses an automatic, hot surface ignition system to light the burners each time the thermostat signals the furnace to start.

Follow these important safeguards:

- S Never attempt to manually light the burners with a match or other source of flame.



Fig. 3 - Do Not Light Burner with Match

A92319

- S Read and follow the operating instructions on inside of main furnace door, especially the item that reads as follows:
“Wait 5 minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, **STOP!** Follow “B” in the safety information above on this furnace label. If you don’t smell gas, go to the next step.”
- S If a suspected malfunction occurs with your gas control system, such as the burners do not light when they should, refer to the shutdown procedures on inside of main furnace door, or in the “Shutting Down Your Furnace” section and call your dealer as soon as possible.



WARNING

FIRE AND EXPLOSION HAZARD

Failure to follow this warning could result in personal injury, death or property damage.

Should the gas supply fail to shutoff or if overheating occurs, turn off the manual gas valve to the furnace **BEFORE** turning off the electrical supply and install lockout tag.

- S **CHECK AIR FILTER:** Before attempting to start your furnace, be sure the furnace filter is clean and in place. See “Performing Routine Maintenance” section in this manual. Do not run the furnace without a filter in place. Then proceed as follows:

STEPS FOR STARTING YOUR FURNACE

1. Set your room thermostat to the lowest temperature setting.

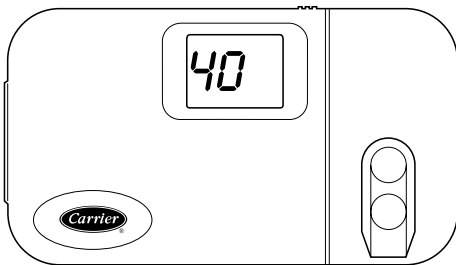


Fig. 4 - Lowest Temperature Setting

A95166

2. **Close** the external manual gas valve.

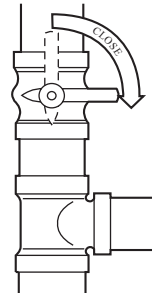


Fig. 5 - Close Valve

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3. Turn **OFF** electrical supply to the furnace.

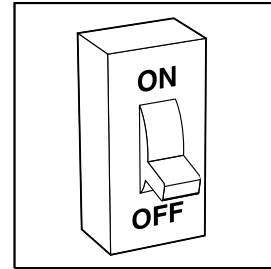


Fig. 6 - Turn Off Electrical Supply

A92185

4. **Remove** the outer door by loosening the thumbscrew and pulling the door forward.

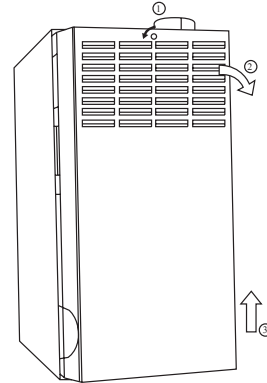


Fig. 7 - Remove Furnace Door

A02073

5. Turn the control switch on the gas control to the **OFF** position and wait 5 minutes. Then smell for gas, including near the floor. If you smell gas, **STOP!** Follow “B” on furnace label. If you don’t smell gas, go to next step.

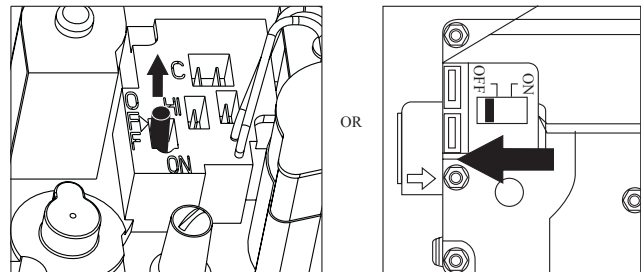
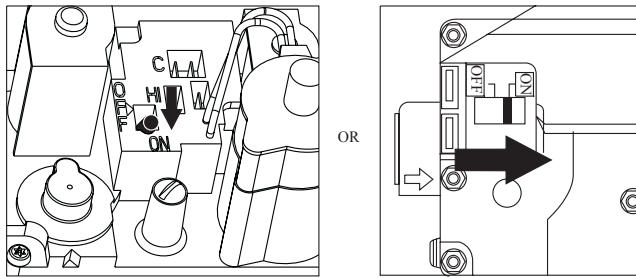


Fig. 8 - Control Switch to OFF

A02266

6. After waiting 5 minutes, if you still smell gas, **STOP!** Follow the safety information on the cover of this manual. If you do not smell gas, go to the next step.

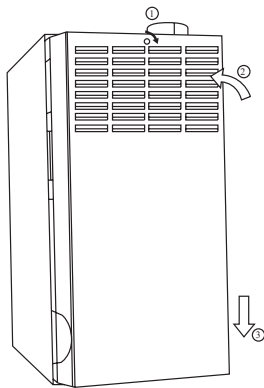
- Turn the control switch to **ON**.



A02267

Fig. 9 - Control Switch to ON

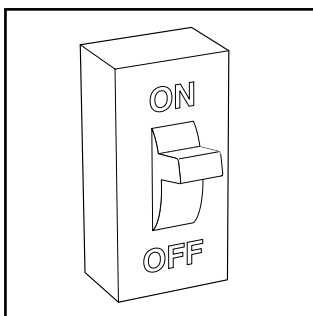
- Replace** the outer door and tighten the thumbscrew.



A02074

Fig. 10 - Fur nace Door Replaced

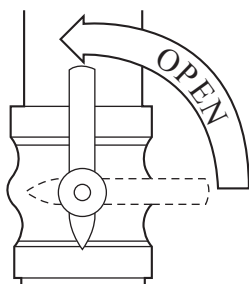
- Turn **ON** the electrical supply to the furnace.



A92359

Fig. 11 - Turn On Electrical Supply

- Open the external manual gas valve.



A06189

Fig. 12 - Open Valve

- Set the room thermostat to a temperature slightly above the room temperature. This will automatically signal the furnace to start. The inducer motor will start and the hot surface igniter will energize. When hot, the igniter will have an orange glow.

- After about 17 seconds, the gas valve permits gas to flow to the main burners where it is ignited. Hot flames begin to warm the furnace's heat exchanger. After a time delay of approximately 25-45 seconds the furnace blower is switched on.

NOTE: If the main burners fail to ignite, the furnace control system will go through three more ignition cycles. Then if burners fail to ignite, the system will lockout. If lockout occurs or the blower does not come on, shut down your furnace and call your dealer for service.

- Set your thermostat to the temperature that satisfies your comfort requirements. **SUGGESTION:** Setting the thermostat back a few degrees—and compensating for the difference with warmer clothing—can make a big difference in your fuel consumption on extremely cold days. The few degrees at the top of your thermostat “comfort level” are the most costly degrees to obtain.

When the room temperature drops below the temperature selected on the thermostat, the furnace will switch on automatically. When the room temperature reaches the setting selected on the thermostat, the furnace will be automatically switched off.

Continuous Fan Operation -Some thermostats have a “FAN” switch with 2 selections: AUTO and ON. When thermostat is set on AUTO, the furnace blower cycles on and off, controlled by the thermostat. In ON position, the furnace blower runs continuously except for a 42-62 sec delay at the “call for heat.” Continuous fan keeps the temperature level in your home more evenly balanced. It also continuously filters the indoor air.

Comfort Fan -On all but the 58STA or 58STX, the continuous fan blower speed can be increased or decreased if desired due to change of seasons, large gatherings in your home, etc. Simply change your “FAN” switch from “on” to “off” (or “auto” depending on your thermostat), and then return to “on”, within 1 to 3 seconds. The blower will switch to the next highest speed. There are at least 3 speeds to choose from. If the blower is running on its highest speed, a request to change will direct the blower to return to its lowest speed.

SHUTTING DOWN YOUR FURNACE

Should you ever suspect a malfunction in your furnace, you will need to turn the furnace off. The following procedures must be followed:

- Set your room thermostat to the lowest temperature setting. (See Fig. 3.)
- Close** the external manual gas valve (See Fig. 4).
- Turn **off** electrical supply to the furnace. (See Fig. 5.)
- Remove** outer furnace door. (See Fig. 6.)
- Turn the switch on the gas control to the **OFF** position. (See Fig. 7.)
- Replace** the outer furnace door. (See Fig. 9.)
- If the furnace is being shut down because of a malfunction, **call** your dealer as soon as possible.

PERFORMING ROUTINE MAINTENANCE

With proper maintenance and care, your furnace will operate economically and dependably. Instructions for basic maintenance are found on this and the following pages. However, before beginning maintenance, follow these safety precautions:

WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Turn off electrical power supply to your furnace before removing the access doors to service or perform maintenance.

CAUTION

CUT HAZARD

Failure to follow this caution may result in personal injury.

Although special care has been taken to minimize sharp edges, be extremely careful when handling parts or reaching into the furnace. Wear safety glasses, gloves, and appropriate protective clothing.

FILTERING OUT TROUBLE

CAUTION

UNIT PERFORMANCE HAZARD

Failure to follow this caution may result in product damage.

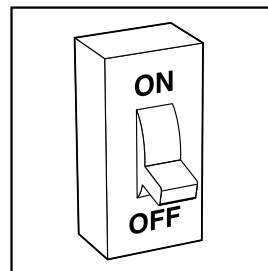
Never operate your furnace without a filter in place. Doing so may damage the furnace blower motor. An accumulation of dust and lint on internal parts of your furnace can cause a loss of efficiency.

A dirty filter will cause excessive stress on the furnace, heat exchanger, and blower motor and can cause it to overheat and automatically shut down. The furnace filter should be checked every 4 weeks and cleaned or replaced if necessary.

If installed with factory specified disposable media filter, check or replace filter before each heating and cooling season. Replace disposable media filter at least twice a year.

If your furnace filter needs replacing, be sure to use the same size and type of filter that was originally specified. The air filter for the furnace may be located in a filter cabinet attached to the side or bottom of the furnace. If air filter has been installed in another location, contact your dealer for instructions. To inspect, clean and/or replace the air filter(s), follow these steps:

1. Turn off the electrical supply to the furnace.

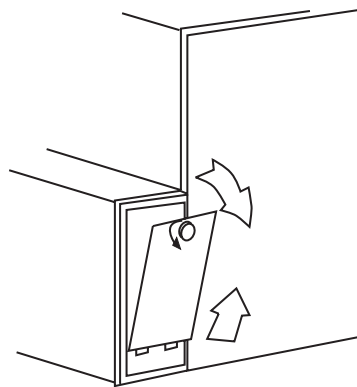


A92185

Fig. 13 - Turn Off Electrical Supply

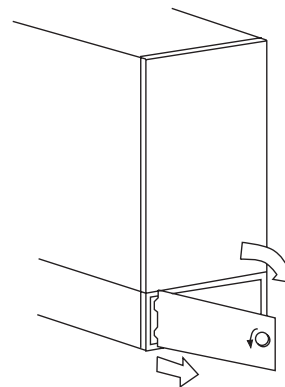
2. Remove filter cabinet door (See Fig. 14 and 15.)

NOTE: It may be necessary to remove 1 thumbscrew.



A06190

Fig. 14 - Removing Side Filter Cabinet Door



A06191

Fig. 15 - Removing Bottom Filter Cabinet Door

3. Slide air filter out of filter cabinet. Keep dirty side up (if dirty) to avoid spilling dirt. (See Fig. 16 and 17.)

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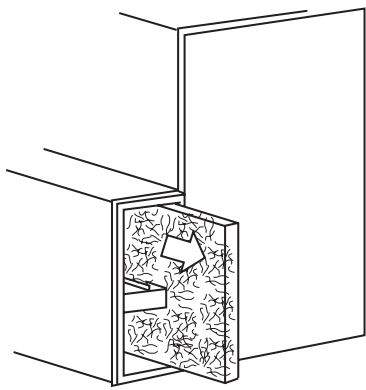


Fig. 16 - Slide Side Filter Out of Furnace

A00227

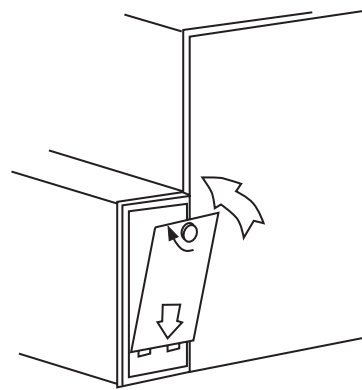


Fig. 18 - Replace Side Filter Cabinet Door

A06192

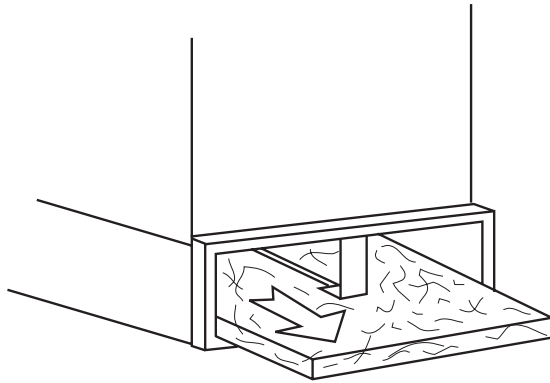


Fig. 17 - Slide Bottom Filter Out of Furnace

A00228

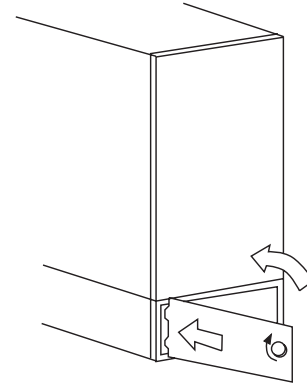


Fig. 19 - Replace Bottom Filter Cabinet Door

A06193

4. Inspect the filter. If torn, replace it.

NOTE: If a washable filter has been replaced with:

- a. Factory specified disposable media filter — Do not clean. If dirty, replace only with media filter having the same part number and size. Install with airflow direction arrow pointing towards blower.
 - b. Electronic Air Cleaner (EAC) — Refer to EAC Owner's Manual for maintenance information.
5. Wash filter (if dirty) in sink, bathtub, or outside with a garden hose. Always use cold tap water. A mild liquid detergent may be used if necessary. Spray water through filter in the opposite direction of airflow. Allow filter to dry.
 6. Reinstall clean air filter.
 7. Replace filter cabinet door. (See Fig. 18 and 19.)
 8. Turn on electrical supply to furnace (See Fig. 11).

NOTE: If side return ducts are used, 2 filters may be required in some models. The procedure listed above may be used to remove side filters.

⚠ CAUTION

PERSONAL INJURY HAZARD

Failure to follow this caution may result in personal injury.

Use care when cutting support rods in filters to protect against flying pieces and sharp rod ends. Wear safety glasses, gloves, and appropriate protective clothing.

Filters may be field modified by cutting filter material and support rods (3) in filters. Alternate sizes and additional filters may be ordered from your dealer.

FURNACE CASING WIDTH IN (MM)	FILTER QUANTITY AND SIZE *		FILTER TYPE*
	SIDE RETURN IN (MM)	BOTTOM RETURN IN (MM)	
14 – 1/2 (368)	(1) 16 x 25 (406 x 635)	(1) 14 x 25 (356 x 635)	1" (25 mm) thick cleanable or 4 – 5/16" (110 mm) thick media – type
17 – 1/2 (445)	(1) 16 x 25 (406 x 635)	(1) 16 x 25 (406 x 635)	1" (25 mm) thick cleanable or 4 – 5/16" (110 mm) thick media – type
21 (533)	(1) 16 x 25 (406 x 635)	(1) 20 x 25 (508 x 635)	1" (25 mm) thick cleanable or 4 – 5/16" (100 mm) thick media – type
24 (610)	(1) 16 x 25 (406 x 635)	(1) 24 x 25 (610 x 635)	1" (25 mm) thick cleanable or 4 – 5/16" (100 mm) thick media – type

*Recommended

**Some furnaces may have 2 filters

COMBUSTION AREA AND VENT SYSTEM

⚠ WARNING

ELECTRICAL OPERATION HAZARD

Failure to follow this warning could result in personal injury or death.

For proper and safe operation the furnace needs air for combustion and ventilation. Do not block or obstruct air openings on the furnace, air opening to the area in which the furnace is installed, and the space around the furnace.

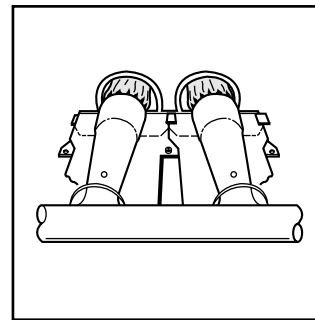


Fig. 20 - Burner Flame

A92330

⚠ WARNING

ELECTRICAL OPERATION HAZARD

Failure to follow this warning could result in personal injury or death.

If holes are found or if the vent pipe is obstructed or is not connected, toxic fumes can escape into your home. **DO NOT OPERATE YOUR FURNACE.** Call your dealer for service.

⚠ WARNING

CARBON MONOXIDE POISONING HAZARD

Failure to follow this warning could result in personal injury or death.

If dirt, rust, soot, or scale accumulations are found, call your dealer. Do not operate your furnace.

Inspect the combustion area and vent system before each heating season. An accumulation of dirt, soot, or rust can mean a loss of efficiency and improper performance. Buildups on the main burners can cause faulty firing. This "delayed ignition" is characterized by an alarmingly loud sound.

NOTE: If your furnace makes a loud noise when the main burners are ignited, shut down the furnace and call your servicing dealer.

Use your flashlight and follow these steps for inspecting the combustion area and vent system of your furnace:

1. Turn off electrical supply to the furnace and remove the access door. (See Fig. 6 and 7.)
2. Carefully inspect the gas burner for dirt, rust, or scale. Inspect the elbow, flue connection area, and the vent pipe for rust.

3. Inspect the vent pipe for a sag, holes, or a disconnection. A horizontal vent pipe must slope upward away from furnace. If rusty joints or seams, or signs of water leakages are found, call your dealer for service.
4. Restore electrical power to the furnace. (See Fig. 11.)
5. Start the furnace and observe its operation. If possible, watch the burner flames. Are they burning bright blue? If not or if you suspect some other malfunction, call your servicing dealer.
6. Replace the access door. (See Fig. 10.)

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BEFORE YOU REQUEST A “SERVICE CALL”

Before you call for service, check for several easily solved problems:

S Check for sufficient airflow. Check the air filter for dirt. Check for blocked return-air or supply-air grilles. Be sure they are open and unobstructed. If this isn't the cause of the problem, call your servicing dealer. If your furnace isn't operating at all, check the following list for easily solved problems:

S Is your thermostat set above room temperature? Is the HEAT mode selected?

S Is the electrical power supply switch on? Is the blower access door firmly in place? Are any fuses blown? (There is a fuse on the furnace control.) Has a circuit breaker tripped?

S Is the manual shut-off valve in the gas supply pipe leading to the furnace open? Does the lever point in the same direction that the pipe runs (open)? Or is it at a right angle to the pipe (closed)?

NOTE: Before proceeding with the next checks, turn off the electrical power supply to the furnace. Remove access door.

S Is the switch on the gas valve turned to the ON position? If this or the preceding check shows an interruption in the gas supply, make sure the gas has not been shut off for safety reasons. If nothing else seems to be wrong, follow the start-up procedures found on pages 4 and 5 of this booklet.

CAUTION

PERSONAL INJURY HAZARD

Failure to follow this caution may result in personal injury.

If for some reason the vent is blocked, the draft safeguard switch will shut off the furnace. (See Page 2 for switch location.) The switch will automatically reset after the furnace cools off. If the furnace fails to operate, contact a qualified service agency.

S Check the manual reset limit switches located on the ends of the burner enclosure (see Fig. 1 and 2). If the furnace has

experienced a high-temperature condition due to inadequate combustion air, these switches will shut off the furnace. Reset the switches by pushing the button on the switch. If the switch trips a second time, turn off the furnace and call for service.

S If your furnace still fails to operate, call your servicing dealer for troubleshooting and repairs. Tell your dealer the model and serial numbers for your furnace. (You should have them recorded on page 10 of this booklet.) By knowing exactly which furnace you have, the dealer may be able to offer suggestions over the phone or save valuable time through knowledgeable preparation for the service call.

Regular dealer maintenance

In addition to the type of routine maintenance you might be willing to do, your furnace should be inspected regularly by a properly trained service technician. A semiannual inspection (or annual inspection, at least) should include the following:

1. Inspection of all flue gas passages including the burners, heat exchanger, inducer, elbow, and vent pipe.
2. Inspection of all combustion and ventilation air passages and openings.
3. Close check of all gas pipes leading to and inside of your furnace.
4. Inspection and cleaning of the blower motor and wheel.
5. Routine inspection and cleaning/replacement of the air filter.
6. Inspection of all supply- and return-air ducts for obstructions, air leaks, and insulation. Any problems found should be resolved at this time.
7. Inspection of furnace installation for proper support and any obvious deterioration of the furnace. The support must be sound and without sags, gaps, cracks, etc., around the furnace base so as to provide an air seal between the return-air duct and furnace.
8. A check for loose connections attaching individual components. Inspection of all electrical wiring and their connections.
9. Operational check of the furnace itself to determine working condition. Repair or adjustment should be made at this time.

Ask your servicing dealer for further details about an economical service contract that covers seasonal inspections.

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Limited Warranty for Non-Condensing Gas Furnace

FOR WARRANTY SERVICE OR REPAIR, FOLLOW THESE STEPS IN ORDER:

FIRST: Contact the installer or a Carrier dealer. You may find the installer's name on the equipment or in your Owner's Packet. You can also find a Carrier dealer online at www.carrier.com.

SECOND: For help finding a servicing dealer, contact: Carrier Corporation, Consumer Relations, P.O. Box 4808, Syracuse, New York 13221
Phone: 1-800-227-7437

PRODUCT REGISTRATION: You can register your product online at www.carrier.com or call 1-800-227-7437.

Model No. _____

Unit Serial No. _____

Date of Installation _____

Installed by _____

Name of Owner _____

Address of Installation _____

Carrier Corporation (hereinafter "Company") warrants this product against failure due to defect in material or workmanship under normal use and maintenance as follows. Except as otherwise stated, the warranty period is five (5) years from the date of installation. If a part fails due to defect within the warranty period, Company will provide only a new or remanufactured part, at Company's sole option, to replace the failed defective part without charge for the part. This limited warranty is subject to the provisions, conditions, limitations and exclusions listed below and on the reverse (if any) of this document.

20-YEAR LIMITED WARRANTY ON HEAT EXCHANGER ONLY - If the heat exchanger fails due to defect within twenty years from the date of installation, Company will either provide a new or remanufactured heat exchanger, without charge for the part itself, or, at Company's option, allow a credit in the amount of the then factory selling price for a new equivalent heat exchanger toward the retail purchase price of a new Carrier furnace.

LEGAL REMEDIES - The owner must notify the Company in writing, by certified or registered letter to Carrier Corporation, Warranty Claims, P.O. Box 4808, Syracuse, New York 13221, of any defect or complaint with the product, stating the defect or complaint and a specific request for repair, replacement, or other correction of the product under warranty, mailed at least thirty (30) days before pursuing any legal rights or remedies.

WARRANTY CONDITIONS:

1. Product must be installed properly and by a licensed or otherwise qualified HVAC technician.
2. The warranty applies only to products remaining in their original installation location.
3. Installation, use, care, and maintenance must be normal and in accordance with instructions contained in the Installation Instructions, Owner's Manual and Company's service information.
4. Defective parts must be returned to the distributor through a registered servicing dealer for credit.
5. Where a product is installed in a newly constructed home, the date of installation is the date the homeowner purchased the home from the builder.
6. If the date of original installation cannot be verified, then the warranty period begins ninety (90) days from the date of product manufacture (as indicated by the model and serial number).

LIMITATIONS OF WARRANTIES: ALL IMPLIED WARRANTIES AND/OR CONDITIONS (INCLUDING IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE) ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. SOME STATES OR PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESS WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON, WHATSOEVER.

THIS WARRANTY DOES NOT COVER:

1. Labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts, or replacement parts, or new units.
2. Any product purchased over the Internet.
3. Normal maintenance as outlined in the installation and servicing instructions or Owner's Manual, including filter cleaning and/or replacement and lubrication.
4. Failure, damage or repairs due to faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
5. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or damages due to the inadequacy or interruption of electrical service.
6. Failure or damage due to floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of Company.
7. Parts not supplied or designated by Company, or damages resulting from their use.
8. Products installed outside the U.S.A. or its territories and Canada.
9. Electricity or fuel costs, or increases in electricity or fuel costs from any reason whatsoever, including additional or unusual use of supplemental electric heat.
10. Any cost to replace, refill or dispose of refrigerant, including the cost of refrigerant.
11. ANY SPECIAL, INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states or provinces do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.



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NOTE TO EQUIPMENT OWNER:

For your convenience, please record the model and serial numbers of your new equipment in the spaces provided. This information, along with the installation data and dealer contact information will be helpful should your system require maintenance or service.

FURNACE

Model # _____

Serial # _____

AIR CONDITIONER OR HEAT PUMP

Model # _____

Serial # _____

INDOOR COIL (Furnace Coil or Fan Coil)

Model # _____

Serial # _____

INSTALLATION INFORMATION:

Date Installed _____

DEALERSHIP CONTACT INFORMATION:

Company Name _____

Address _____

Phone Number _____

Technician Name _____

NOTE TO INSTALLER:

This manual must be left with the equipment owner.



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TO OBTAIN INFORMATION ON PARTS: Consult your installing dealer or classified section of your local telephone directory under the "Heating Equipment" or "Air Conditioning Contractors & Systems" heading for dealer listing by brand name. Have available the Model No., Series Letter, & Serial No. of your equipment to ensure correct replacement part.